

Overview

- Background
- **Implementation Status**
 - Enforcement and Compliance
 - Use of Exemptions and Noncompliance Fees
 - Vessel Rerouting
- Coordination with IMO Emission Control Area
- Summary



Switching to a Distillate Fuel Results in Immediate Emissions Benefits ■ Significant emission reductions from switching from 2.5%S HFO to 0.1%S MGO - Diesel PM: 83%↓ - SOx: 96%↓ - NOx: 6%↓

Ship Fuel Rule is Critical to Meet California's Air Quality Goals

- Reduces potential cancer risk in coastal communities
- Reduces other health impacts
 - Premature death, asthma, lost work days
- Necessary to achieve state and federal ambient air quality standards for ozone and particulate matter

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Clean Fuel Requirements

- Requires use of cleaner fuels within 24 nautical mile zone of the California coastline
- July 1, 2009
 - use marine gas oil (averages 0.3% sulfur), or
 - use marine diesel oil with a 0.5% sulfur limit
- January 1, 2012
 - use marine gas oil with a 0.1% sulfur limit, or
 - use marine diesel oil with a 0.1% sulfur limit
- Applies to main and auxiliary engines, and auxiliary boilers



Includes Provisions to Assist with Implementation

- Essential Modifications Exemption
- Safety Exemption
- Temporary Experimental or Research Exemption
- Noncompliance Fee
 - option to pay a noncompliance fee under special circumstances such as having unplanned redirection at sea

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Essential Modifications Exemption

- Provision is granted when vessel operators/owners demonstrate that they cannot meet the fuel requirements without "essential modifications" to the vessel
 - regulation provides a definition of an "Essential Modification"
 - exemption is granted by ARB based on a demonstration of need
 - vessels must meet requirements of exemption
 - application process takes about 30 to 45 days

Safety Exemption

- Safety Exemption applies if
 - the master determines that compliance would endanger the safety of the vessel, crew, cargo or passengers
 - due to severe weather conditions, equipment failure, fuel contamination, or other extraordinary reasons beyond the master's reasonable control
 - applies only as long and to the extent necessary to secure safety
 - master takes all reasonable precautions to avoid or minimize repeated claims of exemption
 - master notifies ARB of a safety exemption claim
 - within 24 hours after incident
 - submits documentation within 4 working days after notification

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Temporary Experimental or Research Exemption

- Provided for research projects that will advance the state of knowledge of exhaust control technology or characterization of emissions
 - Allows for the use of noncompliant fuel
 - Applicant must provide progress reports and all test data and other project results
 - Exemption possible for up to 3 years, with an extension possible
 - Application process takes about 30 days

Noncompliance Fee Provision

- Allows ship operator to comply with the regulation by paying a fee under certain limited situations rather than using compliant fuel
 - Unplanned redirection, inability to purchase complying fuel, Inadvertent purchase of defective fuel, infrequent visitor needing modifications, Inability to complete necessary modifications (if not using essential modifications provision)
- Must notify ARB prior to entering 24 nm zone
- Must Demonstrate Need to Use the Provision
- Fee assessed per port visit and start at \$45,500

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Enforcement and Compliance

- ARB inspectors board vessels at dockside throughout California
 - Fuel samples collected for testing and analysis
 - Records and fuel switching procedures reviewed
- About 230 inspections since rule became effective on July 1, 2009*
 - Fourteen potential violations under investigation (~94% compliance)
 - No fines issued to date
- Most potential violations involve fuel switching within regulated zone

*Summary from July 1, 2009 to March 30, 2010

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Essential Modifications Exemptions*

- Majority of applications are for tanker boilers
- Fewer new applications at this stage
- 449 applications received
 - 421 completed, 28 under review
- 365 applications approved
 - 56 partial approvals (generally for boilers only, with denials for main and auxiliary engines)

*Summary from July 1, 2009 to March 30, 2010

Summary of Safety Exemptions & Noncompliance Fees*

Safety Exemptions (per month)	
July 2009	1
August 2009	2
September 2009	1
October 2009	1
November 2009	2
December 2009	4
January 2010	5
February 2010	2
March 2010	5
Noncompliance Fees	
From July 1, 2009 to March 30, 2010	2

*Summary from July 1, 2009 to March 30, 2010

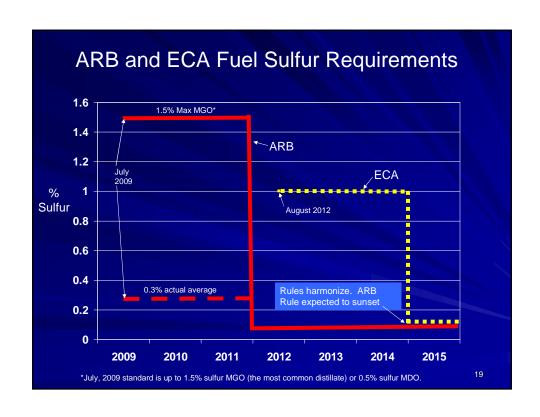
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Impacts on Vessel Routes

- Increasing number of vessels transiting through the Pt. Mugu Sea Range
- Best for air quality, vessel safety, and Naval operations if vessels use historic shipping lanes, especially in the Santa Barbara Channel
- Actively working with stakeholders to address concerns









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